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1 Cache-conscious structure definition
Trishul M. Chilimbi, Bob Davidson, James R. Larus
May 1999 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1999 conference on Programming language design and implementation PLDI '99**, Volume 34 Issue 5
Publisher: ACM Press
Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

A program's cache performance can be improved by changing the organization and layout of its data---even complex, pointer-based data structures. Previous techniques improved the cache performance of these structures by arranging distinct instances to increase reference locality. These techniques produced significant performance improvements, but worked best for small structures that could be packed into a cache block.This paper extends that work by concentrating on the internal organization of f ...

Keywords: cache-conscious definition, class splitting, field reorganization, structure splitting

2 Query processing of semi-structured data: Xpath on steroids: exploiting relational engines for xpath performance
Haris Georgiadis, Vasilis Vassalos
June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**
Publisher: ACM Press
Full text available: pdf(868.78 KB) Additional Information: full citation, abstract, references, index terms

A lot of research has been conducted by the database community on methods and techniques for efficient XPath processing, with great success. Despite the progress made, significant opportunities for optimization of XPath still exist. One key to further improvements is to utilize more effectively existing facilities of relational RDBSes for the processing of XPath queries. After taking a comprehensive look at such facilities, we present techniques for XPath processing that work by identifying t ...

Keywords: XML, XML reconstruction, XPath, dewey encoding, indices, relational databases, schema mapping, structural joins

3 SQL_ArmAda: an Ada-appropriate interface to SQL
Dieter Baer, Klaus Sun, Leon Treff
February 1990 **ACM SIGAda Ada Letters**, Volume X Issue 2

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Keywords: XML, XML reconstruction, XPath, dewey encoding, indices, relational databases, schema mapping, structural joins

2 Web applications security: CANDID: preventing sql injection attacks using dynamic candidate evaluations
Sruthi Bandhakavi, Prithvi Bisht, P. Madhusudan, V. N. Venkatakrishnan
October 2007 **Proceedings of the 14th ACM conference on Computer and communications security CCS '07**
Publisher: ACM
Full text available: pdf(426.01 KB) Additional Information: full citation, abstract, references, index terms

SQL injection attacks are one of the topmost threats for applications written for the Web. These attacks are launched through specially crafted user input on web applications that use low level string operations to construct SQL queries. In this work, we exhibit a novel and powerful scheme for automatically transforming web applications to render them safe against all SQL injection attacks.

A characteristic diagnostic feature of SQL injection attacks is that they change the intended st ...

Keywords: dynamic monitoring, retrofitting code, sql injection attacks, symbolic evaluation

3 Semantic integrity support in SQL:1999 and commercial (object-)relational database management systems

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1 The relational model for database management: version 2
E. F. Codd
January 1990 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available: pdf(28.61 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

2 SchemaSQL: An extension to SQL for multidatabase interoperability
Laks V. S. Lakshmanan, Fereidoon Sadri, Subbu N. Subramanian
December 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 4
Publisher: ACM Press
Full text available: pdf(435.89 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We provide a principled extension of SQL, called *SchemaSQL*, that offers the capability of uniform manipulation of data and schema in relational multidatabase systems. We develop a precise syntax and semantics of *SchemaSQL* in a manner that extends traditional SQL syntax and semantics, and demonstrate the following. (1) *SchemaSQL* retains the flavor of SQL while supporting querying of both data and schema. (2) It can be used to transform data in a database in a structure substa ...

Keywords: Information integration, SchemaSQL, multidatabase systems, restructuring views, schematic heterogeneity

3 Query processing of semi-structured data: Xpath on steroids: exploiting relational engines for xpath performance
Haris Georgiadis, Vasilis Vassalos
June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**
Publisher: ACM Press
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